

1 GGCACGAGGAGATCTAGGTTCAAATTAATGTTGCCCTTAGTGTAAAGACAGAGACCCCTCAGACTGATGAAATCGGCTCAGAATTACTT  
91 AGACAAAGCGGATATTGCCACTCTCTTCCCTTTTCTCTGTGTTTGTAGTGAAGAGACCTGAAAGAAAAAGTAGGAGAACATAATG  
\* \*  
181 AGAACAAATACGGTAATCTCTTCAATTTGCTAGTTCAAGTGCTGGACTTGGGACTTAGGAGGGGCAATGGAGCCGCTTAGTGCCTACATCT  
\*  
271 GACTTGGACTGAAATATAGGTGAGAGACAAGATTGTCTCATATCCGGGGAATCATTAACCTATGACTAGGACGGGAAGAGAAACACACTGC  
\*  
361 CTTTACTTCAGTGGGAATCTCGGCCTCAGCCTGCAAGCCCAAGTGTTCACAGTGAGAAAAAGCAAGAGAAATAAGCTAATACTCCTGTCTGA  
\*  
451 ACAAGGCACGGCTCCTTGGTAAAGCTACTCCTTGATCGATCCTTTGCCCGGATTGTTCAAAGTGGACCCCGGAGAAAGTCCGAGCA  
\*  
541 AAGAACTTACCACCAAGCAGTCCAAAGAGGGCCAGAAAGCAACCTGGAGGTGAGACCCAAAGAAAGCTGGAACCATGCTGACTTTGTACAC  
L E V R P K E S W N H A D F V H 16  
631 TGTGAGGACACAGAGTCTGTCTCTGGAAGCCCAAGTGTCAACCGCAGATGAGGAAGTCGGAGGTCCCAATCTGCCGTGTATGTGGGAC  
C E D T E S V P G K P S V N A D E E V G G P Q I C R V C G D 46  
721 AAGGCCACTGGCTATCACTTCAATGTCAATGATGATGTAAGGATGCAAGGGCTTTTTCAGGAGGGCCATGAAACGCCAACGCCCGGTGAGG  
K A T G Y H F N V M T C E G C K G F F R R A M K R N A R L R 76  
811 TGCCCTTCCGGAAGGGCCCTGCGAGATCACCCGGAAGACCCGGCAGACAGTCCAGGGCTGCCCGCTGCCCAAGTGCCTGGAGAGCGGC  
C P F R K G A C E I T R K T R R Q C Q A C R L R K C L E S G 106  
901 ATGAAGAAGGAGATGATGTCCGACGAGGCCGTGGAGGAGCGCGGCTTGATCAAGCGGAAGAAAGTGAACGGACAGGGACTCAG  
M K K E M I M S D E A V E E R R A L I K R K K S E R T G T Q 136

FIG. 1A

#5

991 CCACTGGAGTGCAGGGGCTGACAGAGGAGCAGGGGATGATCATCAGGAGCTGATGGACGCTCAGATGAAAACCTTTGACACTACCTTC  
 P L G V Q G L T E E Q R M M I R E L M D A Q M K T F D T T F 166  
 1081 TCCCATTTCAAGAAATTTCCGGCTGCCAGGGTGTAGCAGTGGTGGAGTTGCCAGAGCCTCTGCAGGCCCCCATCGAGGGAAGAGCT  
 S H F K N F R L P G V L S S G C E L P E P L Q A P S R E E A 196  
 1171 GCCAAGTGGAGCCAGGTCCGGAAAGATCTGTGCTCTTTGAAGGTCTCTGCAAGCTGCGGGGGAGGATGGCAGTGTCTGGAACCTACAA  
 A K W S Q V R K D L C S L K V S L Q A A G G G W Q C L E L Q 226  
 1261 ACNCCCAGCCGACAGTGGCGGAAAGAGATCTTCTCCCTGCTGCCCCACATGGCTGACATGTCAACCTACATGTTCAAAGGCATCATCAGC  
 T P S R Q W R K E I F S L L P H M A D M S T Y M F K G I I S 256  
 1351 TTTGCCAAAGTCATCTCCTACTTCAGGGACTTGCCCATCGAGGACCAGATCTCCCTGCTGAAGGGGCGCTTTCGAGCTGTGTCAACTG  
 F A K V I S Y F R D L P I E D Q I S L L K G A A F E L C Q L 286  
 1441 AGATTCAACACAGTGTTCACGCGGAGACTGGAACCTGGGAGTGTGGCCGGCTGTCCCTACTGCTTGAAGACACTGCAGGTGGCTTCCAG  
 R F N T V F N A E T G T W E C G R L S Y C L E D T A G G F Q 316  
 1531 CAACTTCTACTGGAGCCCATGTCTGAATTCACCTACATGCTGAAGAAGCTGCAGCTGCATGAGGAGGAGTATGTGCTGATGCAGGCCATC  
 Q L L L E P M L K F H Y M L K K L Q L H E E E Y V L M Q A I 346  
 1621 TCCCTCTTCTCCCCAGACCGCCAGGTGTGCTGCAGCACCGCGTGGTGACCAAGCTGCAGGAGCAATTCCGCCATTACTCTGAAGTCCTAC  
 S L F S P D R P G V L Q H R V V D Q L Q E Q F A I T L K S Y 376  
 1711 ATTGAATGCAATCGGCCCCAGCCTGCTCATAGTTCTTGTTCCTGAAGATCATGGCTATGCTCACCGAGCTCCGCAGCATCAATGCTCAG  
 I E C N R P Q P A H R F L F L K I M A M L T E L R S I N A Q 406  
 1801 CACACCCAGCGGCTGTGGCATCCAGGACATACACCCCTTTGCTACGCCCTCATGCAGGAGTGTTCGGCATCACAGGTAGCTGAGCG  
 H T Q R L L R I Q D I H P F A T P L M Q E L F G I T G S \* 434  
 1891 GCTGCCTTGGGTGACACCTTCGAGAGGCGCAGACCCAGAGCCCTCTGAGCCGGCACTCCCCGGCCAGACAGATGGACACTGCCAAGA  
 1981 GCCGACAATGCCCTGTGGCCTGTCTCCCTAGGGAATTCCTGTATGACAGCTGGCTAGCATTCCTCAGGAAGGACATGGGGTGCCCC 2068

FIG. 1B

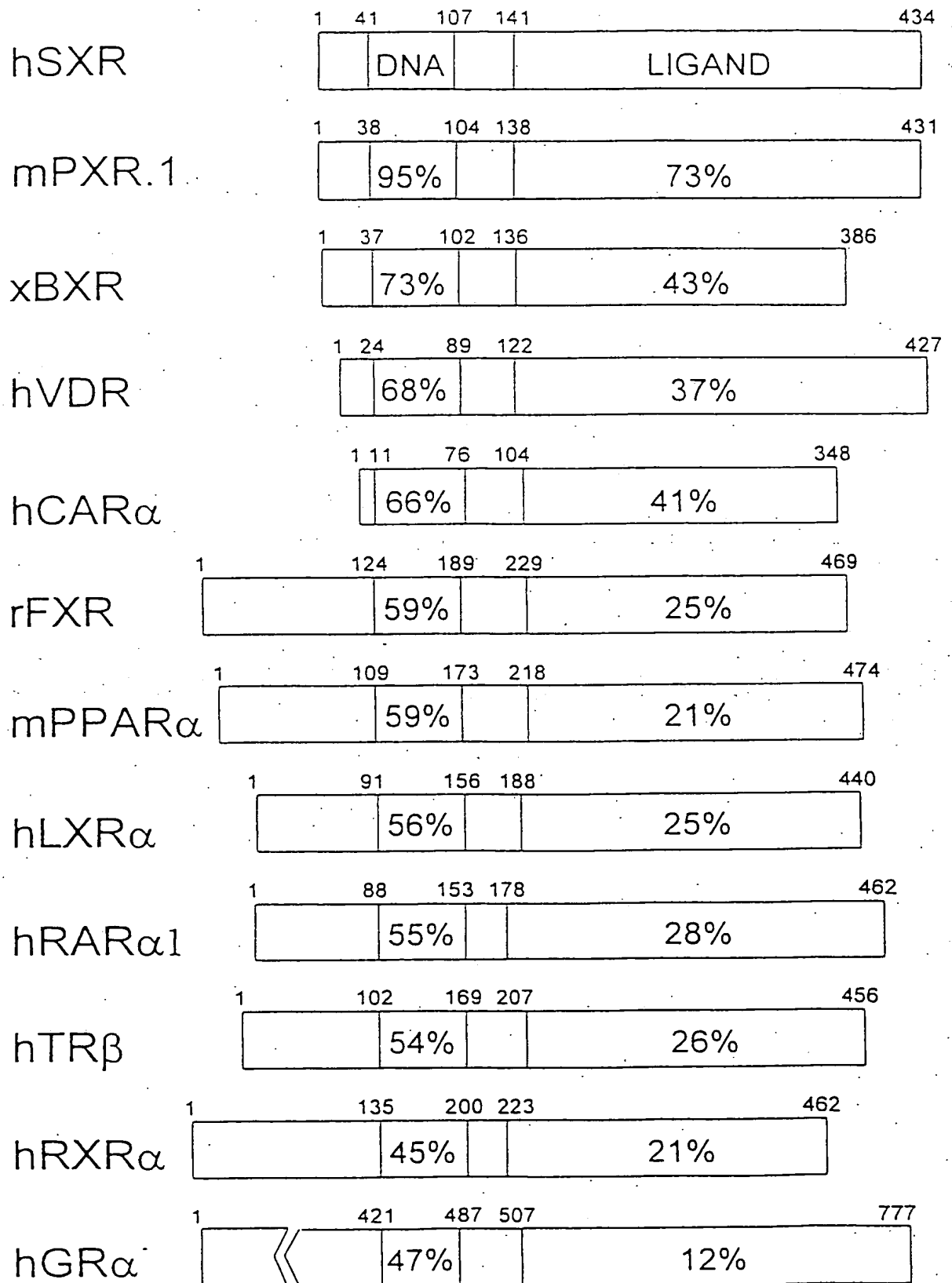
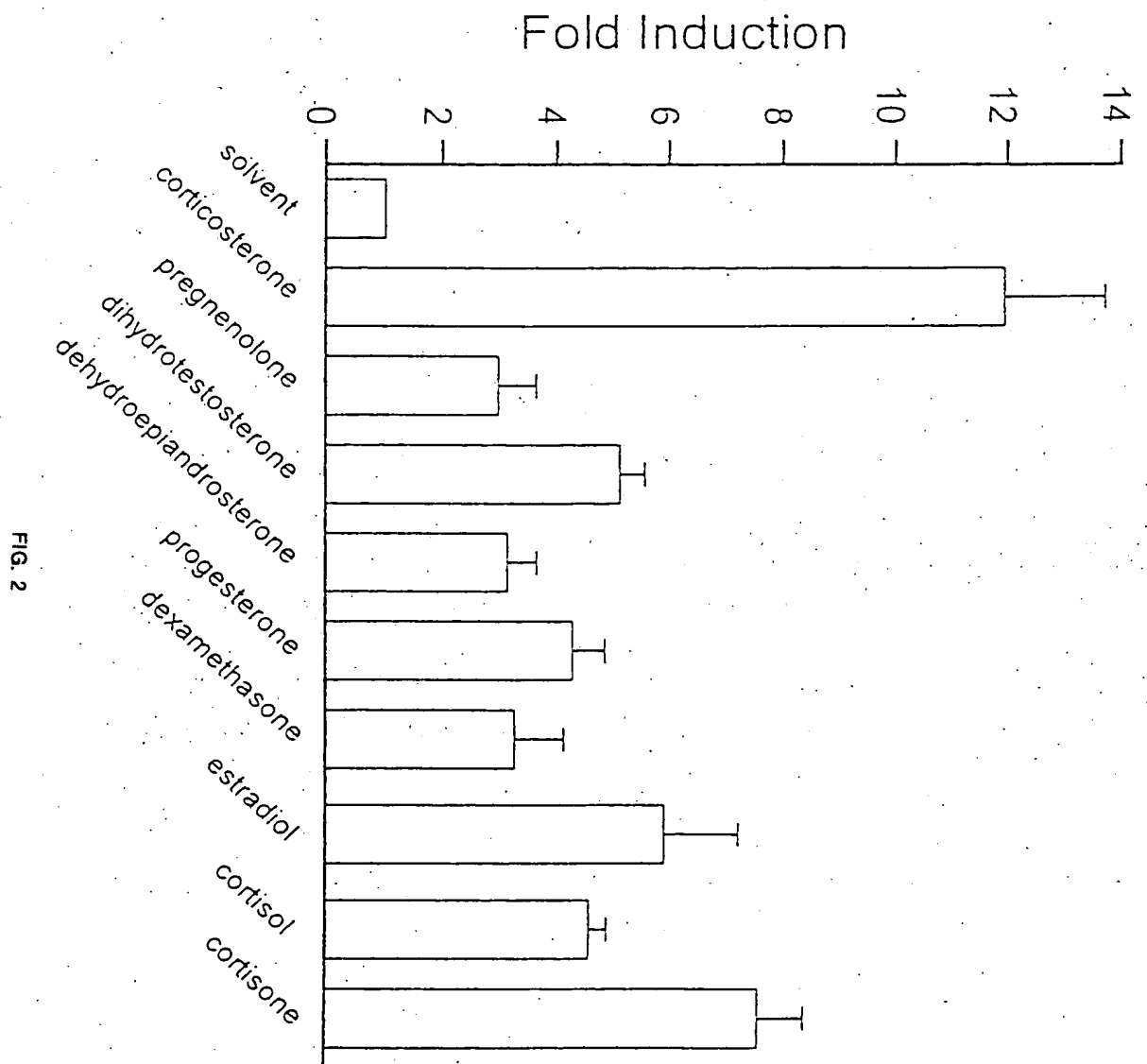
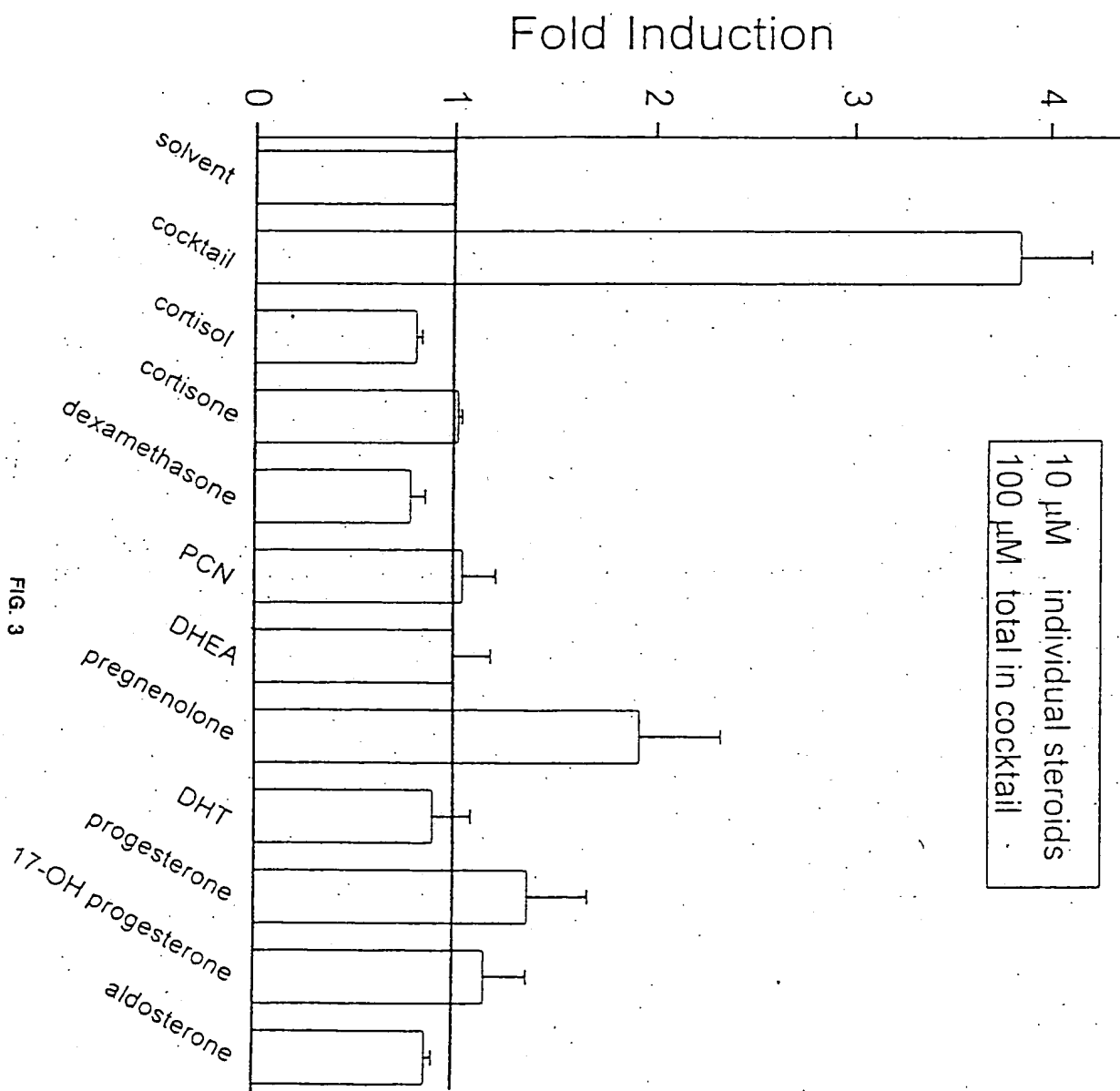


FIG. 1C





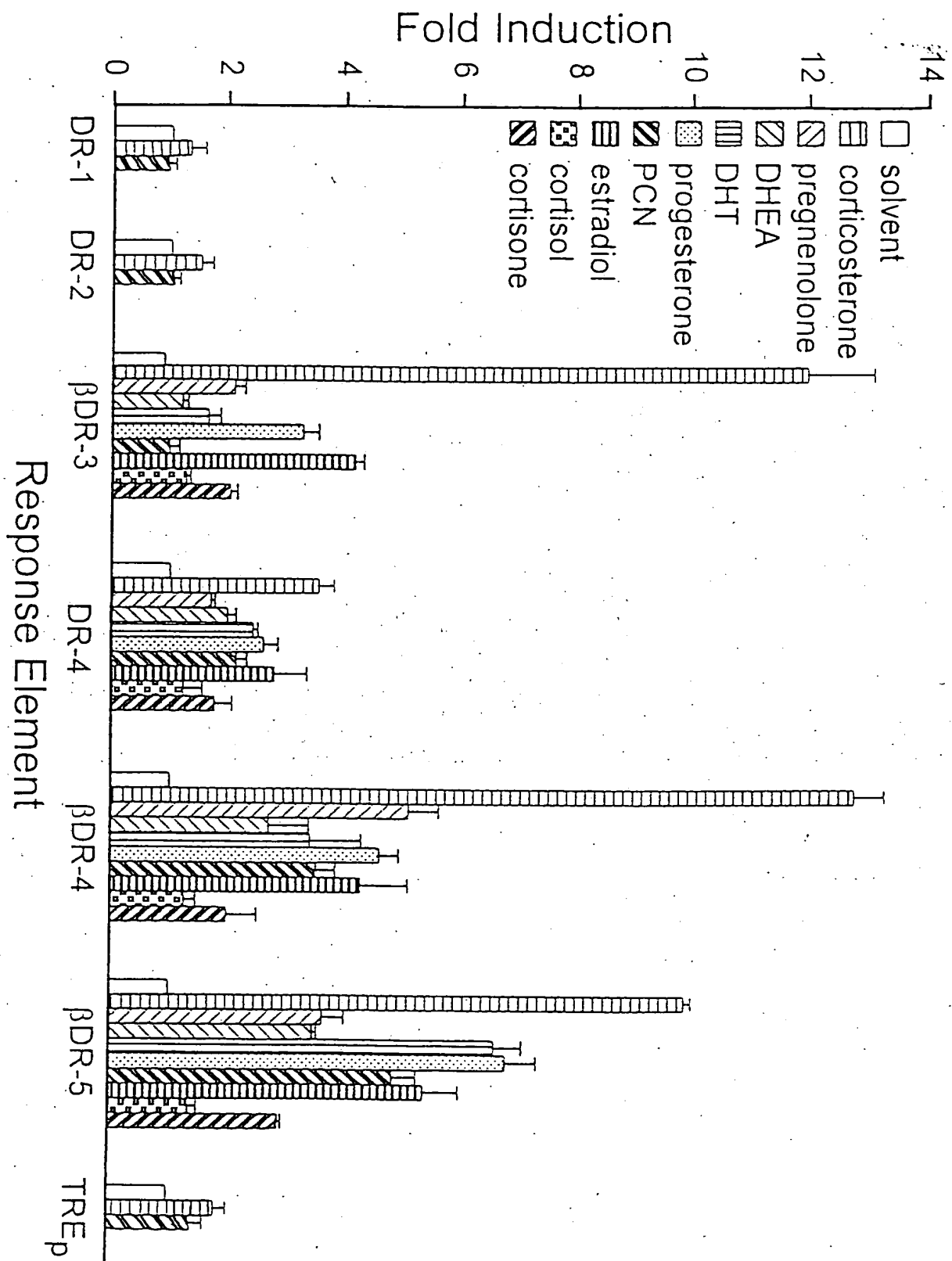


FIG. 4

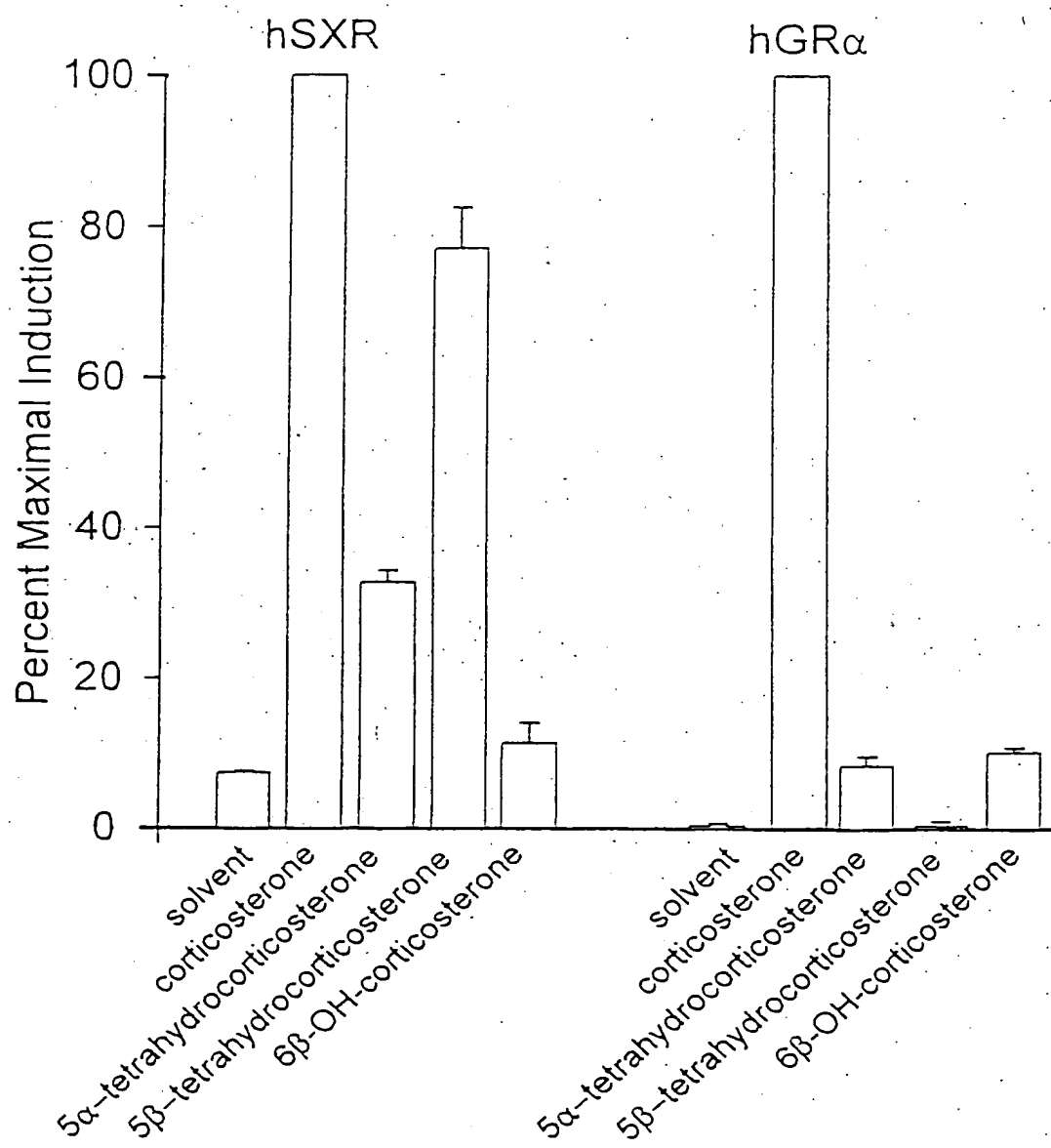


FIG. 5

DR-3	
rCYP3A1	tagac AGTTCA tga AGTTCA tctac
rCYP3A2	taagc AGTTCA taa AGTTCA tctac
rUGT1A6	actgt AGTTCA taa AGTTCA catgg
DR-4	
rbCYP2C1	caatc AGTTCA acag GGTTCa ccaat
rP450R	cac AGGTGA gctg AGGCCA gcagc AGGTCG aaa
DR-5	
rCYP2A1	gtgca GGTTCa actgg AGGTCA acatg
rCYP2A2	gtgct GGTTCa actgg AGGTCA gtatg
rCYP2C6	agtct AGTTCA gtggg GGTTCa gtctt
hCYP2E1	gagat GGTTCa aggaa GGTTCa ttaac

FIG. 6A

CYP3A4 tagaata TGAACCT caaagg AGGTCA gtgagtgg  
CYP3A5 tagaata TGAACCT caaagg AGGTAA gcaaaggg  
CYP3A7 tagaata TTAACCT caatgg AGGC.A gtgagtgg

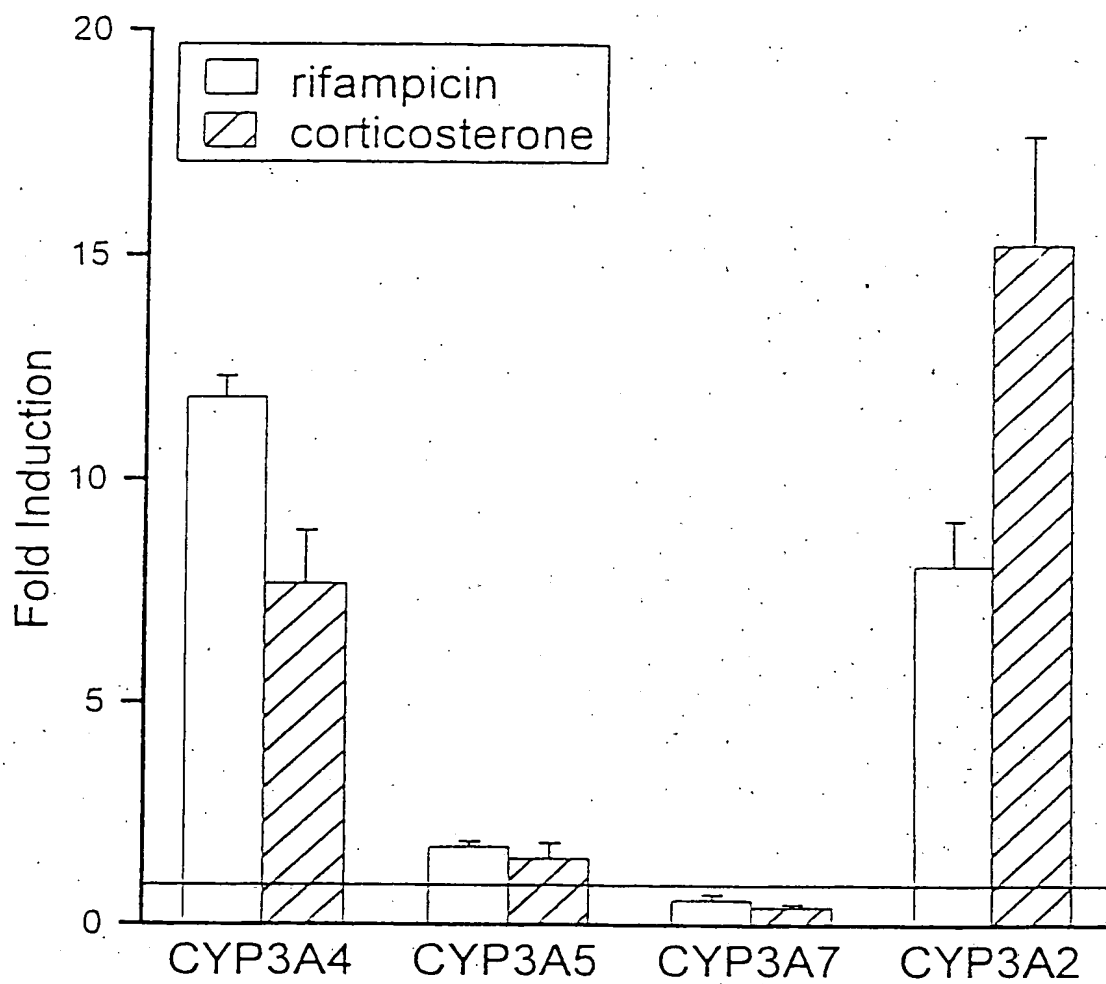


FIG. 6C

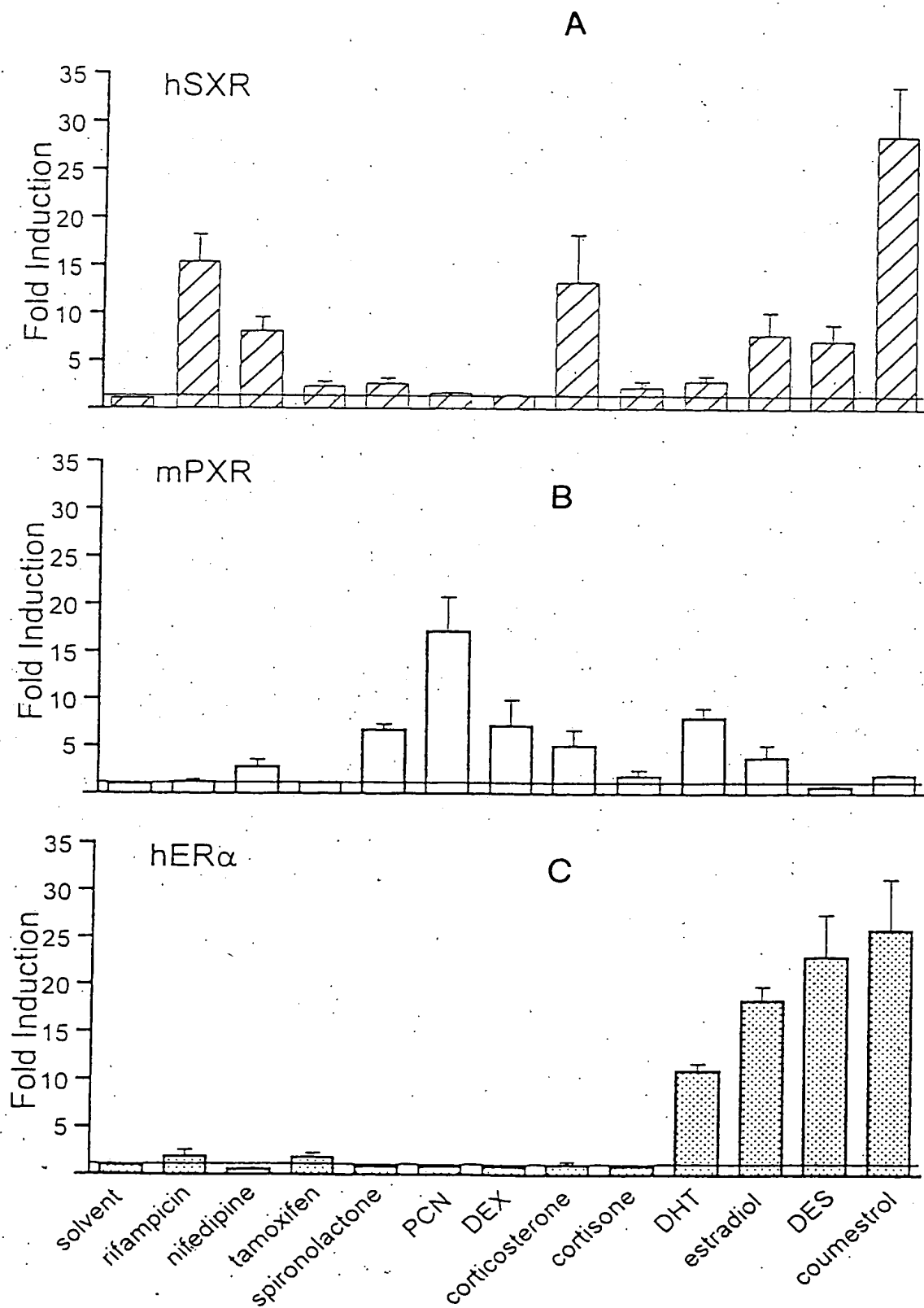


FIG. 7

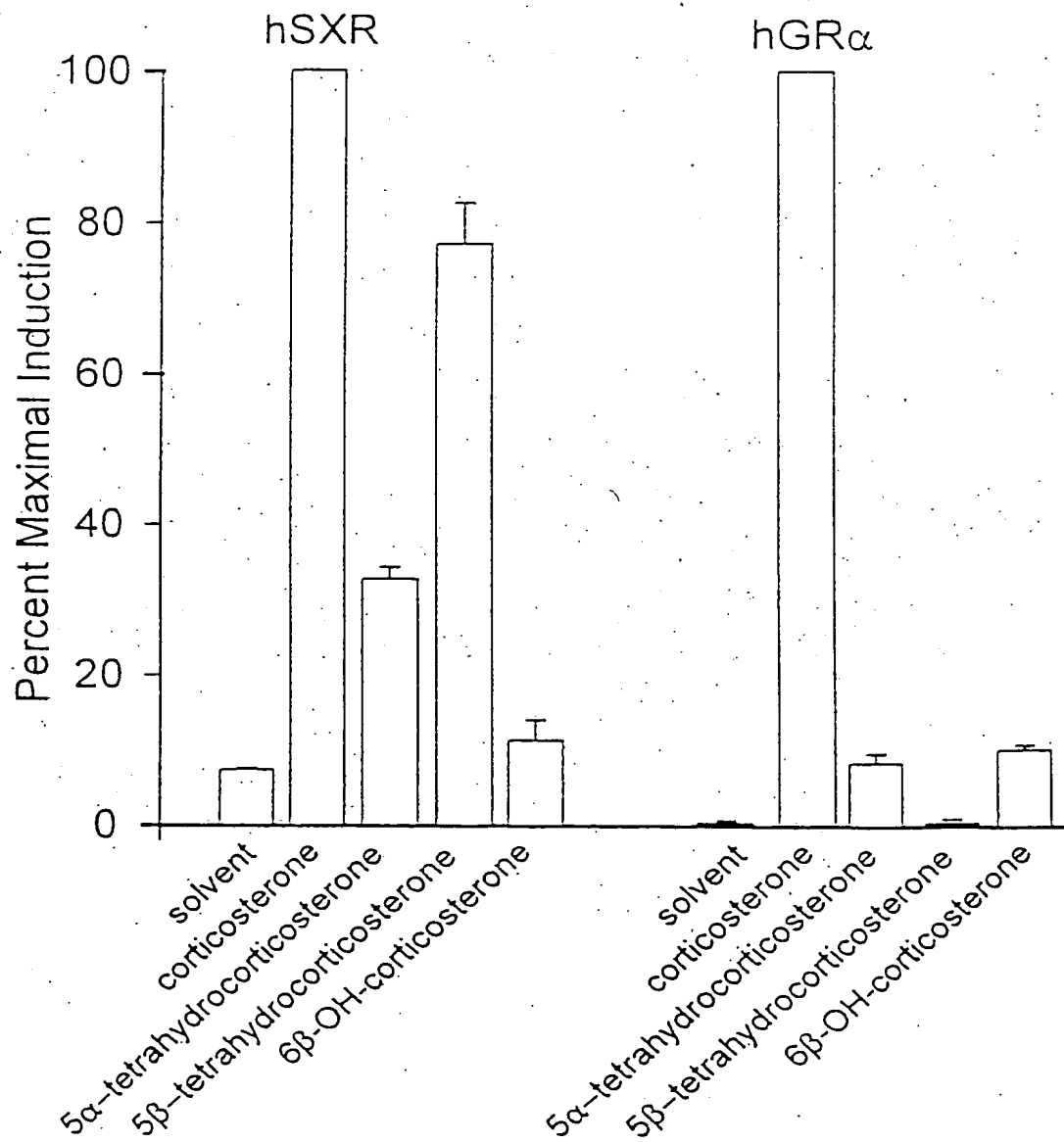


FIG. 7D

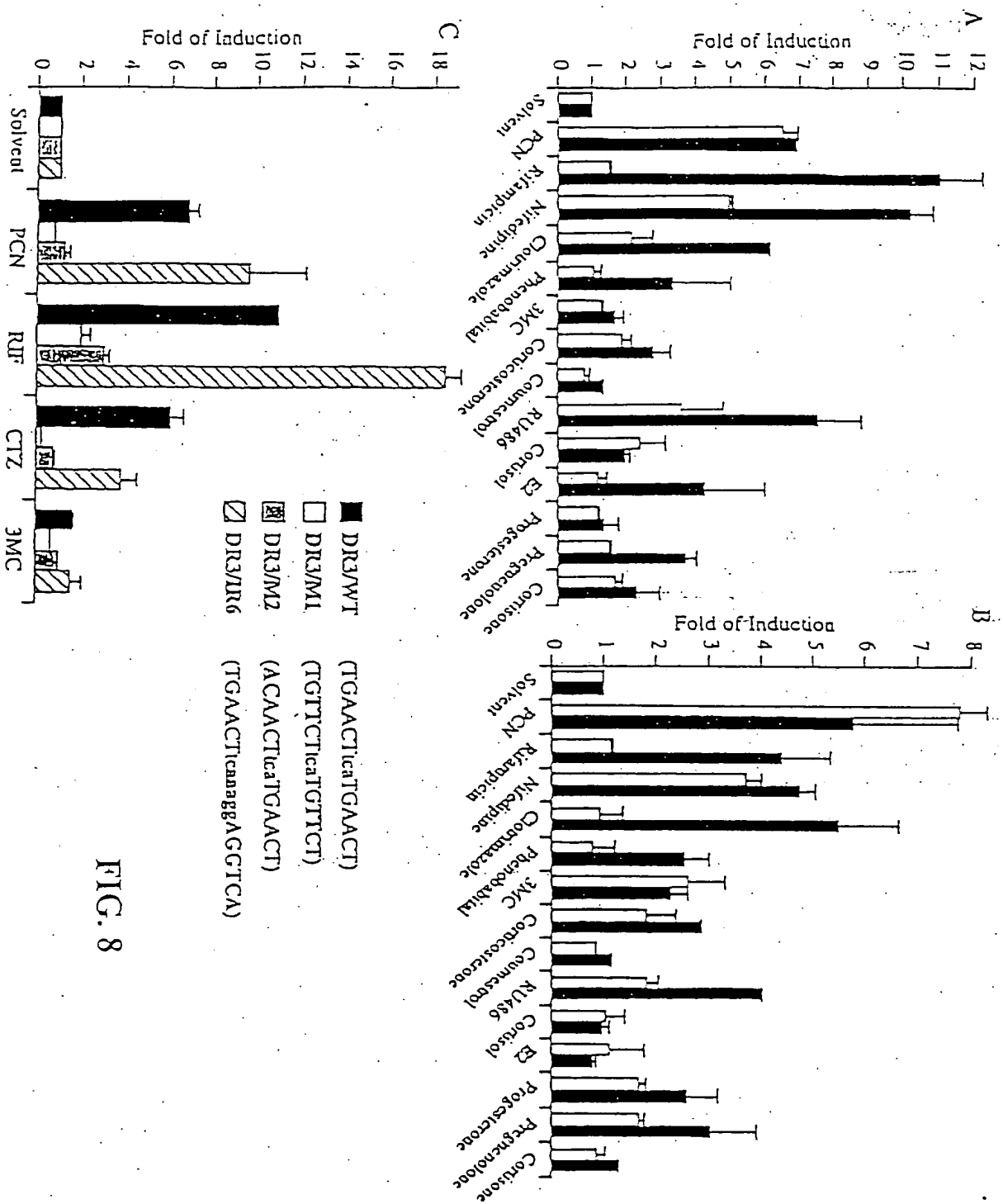


FIG. 8

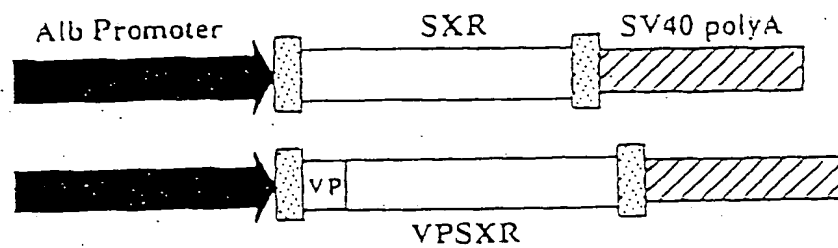


FIG. 9

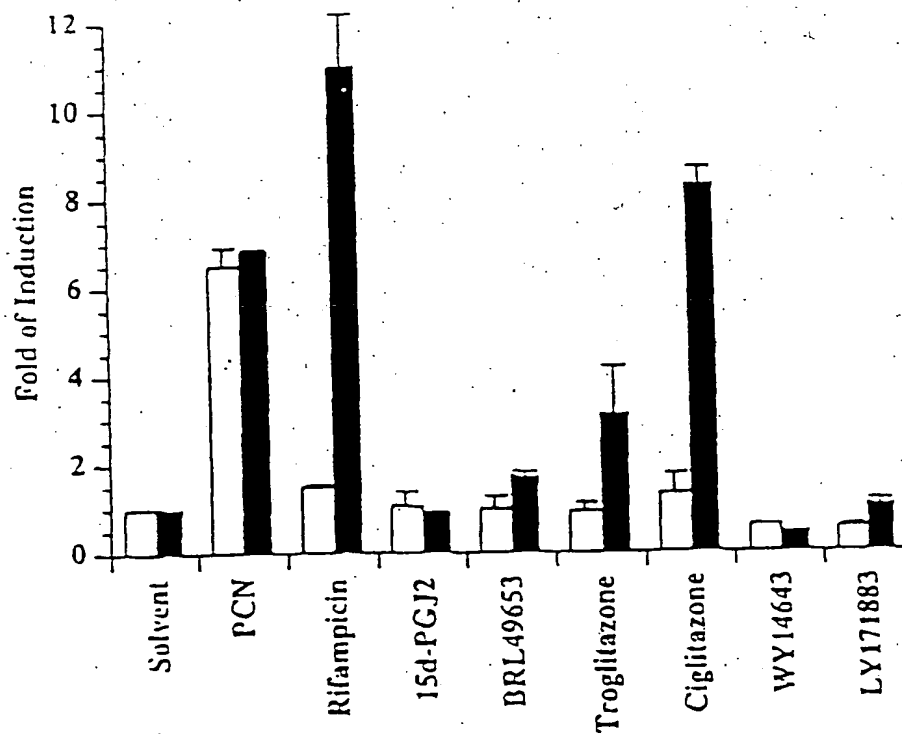


FIG. 10

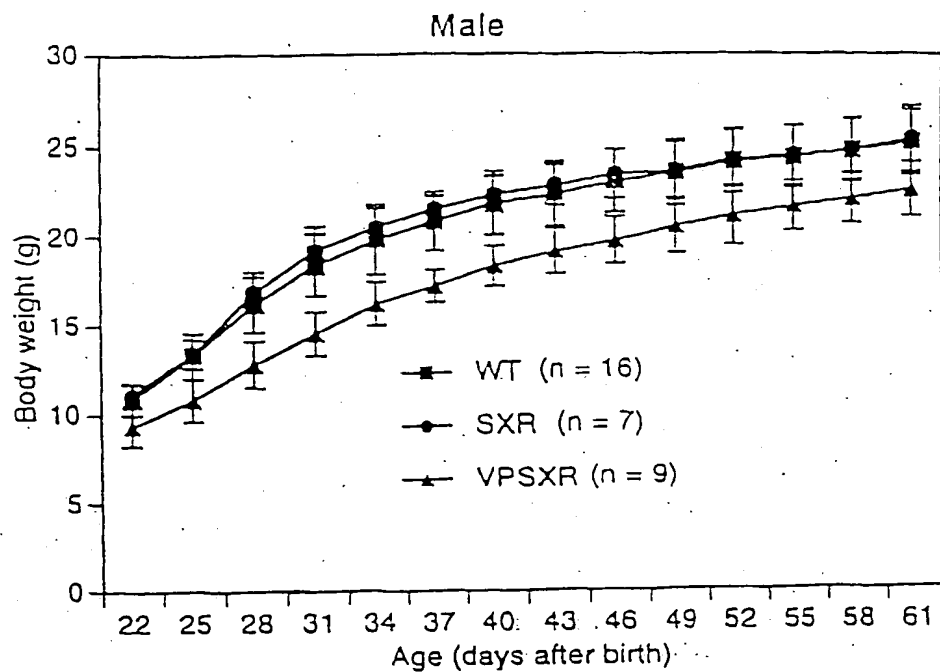


FIG. 11

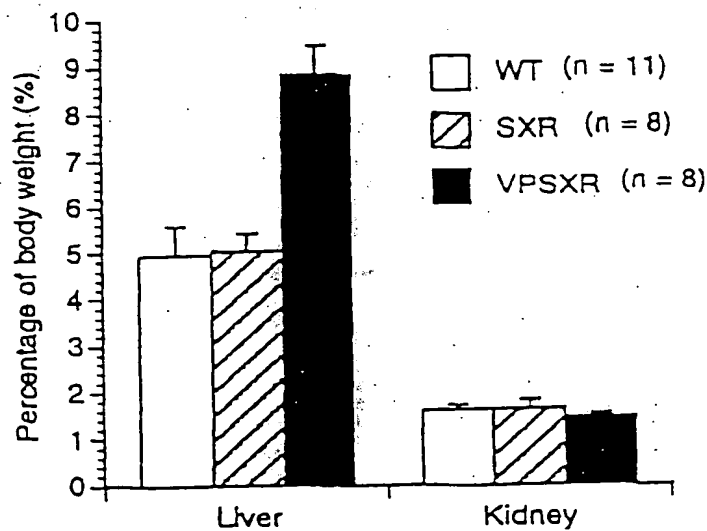


FIG. 12